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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/530,305	04/04/2005	Janardhana Bhat	SG 020025	9926
24737 7590 11/13/2008 PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510				
EXAMINER				
YENKE, BRIAN P				
ART UNIT		PAPER NUMBER		
2622				
MAIL DATE		DELIVERY MODE		
11/13/2008		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/530,305

Applicant(s)

BHAT ET AL.

Examiner

BRIAN P. YENKE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on RCE/Amendment (10/13/08).
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-10 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 23 Sep 08 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/S508)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 13 Oct 08 has been entered.

Drawings

2. The drawing filed on 09/23/08 are approved by the examiner.

Response to Arguments

3. Applicant's arguments filed (04/01/08)—arguments which apply to the now amended claims) have been fully considered but they are not persuasive.

Applicant's Arguments

a) Applicant states the PLL 115 of Tults does not received "the tuned signal". Applicant states that the stage referred to in claim 1 is the IF stage 3 of Fig 1. Applicant states that the PLL 31 of the present invention is able to generate a lock signal more quickly than the automatic fine tuning circuit 32.

Examiner's Response

b) The examiner disagrees. Given the broadest reasonable interpretation, the PLL 115 of Tults does receive tuned signals (whether LO signals) (Fig 1), the claim does not state "said tuned signals" in referring to what the PLL receives. The examiner notes that none of the claims recite the PLL generating a locking signal more quickly than the AFTC circuit, thus the limitation will not be addressed.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 10 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The examiner notes that claim 10 (previously amended on 10 Apr 08)—has been amended to included the language of "computer-readable medium" however the original disclosure only recited "computer program product". The examiner requests clarification from the applicant in showing support for the readable medium in addition to the "having programming instructions stored thereon for causing the controller to execute..." as recited in the claim. The claim has been rejected assuming proper support as shown below. In the event that the disclosure doesn't have support for such limitation, this may necessitate a 35 USC 101 rejection, based upon non-statutory (software) subject matter.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 and 7-10 are rejected under 35 U.S.C. 102(b) as being anticipated by Tults, US

5,157,492.

In considering claims 1, 7 and 9-10,

a) the claimed a tuner...is met by tuner 101 (Fig 1)

b) the claimed a controller...is met by microcomputer 117 (Fig 1)

c) the claimed a stage for receiving tuned signals...is met by PLL 115, AFT (detector 109, 127), video detector 105/Sync Separator 111 which receive tuning signals (signals from the tuner). The stage being the components not included in the tuner or microcomputer. PLL 115 along with AFT circuitry (127/109) and Sync separator 111 provide input into the controller (microcomputer 117). It is noted that the PLL 111 is connected to the controller (microcomputer 117) via input/output terminals 121 and 119 (Fig 1), wherein AFT comparators 127 provides the indication of a carrier signal to controller 117, in addition a sync separator 111 provides the validation whether a horizontal sync has been detected, to affirm a picture carrier not sound carrier has been detected. The control signals (both AFT and Sync 111) originate from the PLL in order to lock onto to the appropriate frequency/phase.

In considering claims 2 and 8,

As stated above, controller 117 receives carrier signal information from AFT 127 in addition to the sync signal (111) to confirm a picture carrier has been detected.

Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tults, US 5,157,492.

In considering claim 3,

Tults does not disclose the conventional capability of "fast tuning mode" which is used to identify various frequencies near active channels, since depending upon the channel map/plan of the

broadcaster, the frequency of the channel may be different. Tults does disclose the concept of automatic fine tuning (via AFT 109, 127).

In considering claim 4,

Tults discloses the use of IF 103.

In considering claim 5,

Tults discloses the use of a controller 117 which includes memories 133, 135 to carry out the selection of channels selected by the user.

In considering claim 6,

Tults discloses that the PLL 115 receives a LO signal from tuner 101, wherein as stated the LO is not shown (col 2, line 50 though as shown in Fig 1, the PLL receives such signal).

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (571)272-7359. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Dave L. Ometz, can be reached at (571)272-7593.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to:

(571)-273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is

(703)305-HELP.

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800-PTO-9199 or 703-308-HELP

(FAX) 703-305-7786

(TDD) 703-305-7785

An automated message system is available 7 days a week, 24 hours a day providing informational responses to frequently asked questions and the ability to order certain documents. Customer service representatives are available to answer questions, send materials or connect customers with other offices of the USPTO from 8:30 a.m. - 8:00p.m. EST/EDT, Monday-Friday excluding federal holidays.

For other technical patent information needs, the Patent Assistance Center can be reached through customer service representatives at the above numbers, Monday through Friday (except federal holidays) from 8:30 a.m. to 5:00 p.m. EST/EDT.

The Patent Electronic Business Center (EBC) allows USPTO customers to retrieve data, check the status of pending actions, and submit information and applications. The tools currently available in the Patent EBC are Patent Application Information

Retrieval (PAIR) and the Electronic Filing System (EFS).

PAIR (<http://pair.uspto.gov>) provides customers direct secure access to their own patent application status information, as well as to general patent information publicly available. EFS allows customers to electronically file patent application documents securely via the Internet. EFS is a system for submitting new utility patent applications and pre-grant publication submissions in electronic publication-ready form. EFS includes software to help customers prepare submissions in extensible

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Markup Language (XML) format and to assemble the various parts of the application as an electronic submission package. EFS also allows the submission of Computer Readable Format (CRF) sequence listings for pending biotechnology patent applications, which were filed in paper form.

/BRIAN P. YENKE/
Primary Examiner, Art Unit 2622

B.P.Y.
10 November 2008